



Operation and Maintenance Manual

777D HAA Off-Highway Truck

2YW 1-UP (777D)

Language: Original Instructions



Scan to find and purchase genuine Cat® parts and related service information.



Important Safety Information

Most accidents that involve product operation, maintenance and repair are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards, including human factors that can affect safety. This person should also have the necessary training, skills and tools to perform these functions properly.

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product, until you verify that you are authorized to perform this work, and have read and understood the operation, lubrication, maintenance and repair information.

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

The hazards are identified by the "Safety Alert Symbol" and followed by a "Signal Word" such as "DANGER", "WARNING" or "CAUTION". The Safety Alert "WARNING" label is shown below.



The meaning of this safety alert symbol is as follows:

Attention! Become Alert! Your Safety is Involved.

The message that appears under the warning explains the hazard and can be either written or pictorially presented.

A non-exhaustive list of operations that may cause product damage are identified by "NOTICE" labels on the product and in this publication.

Caterpillar cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication and on the product are, therefore, not all inclusive. You must not use this product in any manner different from that considered by this manual without first satisfying yourself that you have considered all safety rules and precautions applicable to the operation of the product in the location of use, including site-specific rules and precautions applicable to the worksite. If a tool, procedure, work method or operating technique that is not specifically recommended by Caterpillar is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that you are authorized to perform this work, and that the product will not be damaged or become unsafe by the operation, lubrication, maintenance or repair procedures that you intend to use.

The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that the publication was written. The specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before you start any job. Cat dealers have the most current information available.

NOTICE

When replacement parts are required for this product Caterpillar recommends using original Caterpillar® replacement parts.

Other parts may not meet certain original equipment specifications.

When replacement parts are installed, the machine owner/user should ensure that the machine remains in compliance with all applicable requirements.

In the United States, the maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual of the owner's choosing.

Table of Contents

Foreword	4	Machine Operation	43
Safety Section		Engine Starting	74
Safety Messages	6	Parking	80
Additional Messages	15	Transportation Information	83
General Hazard Information	20	Jacking Location Information	84
Crushing Prevention and Cutting Prevention ..	24	Towing Information	85
Burn Prevention	24	Engine Starting (Alternate Methods)	91
Fire Prevention and Explosion Prevention	25	Maintenance Section	
Fire Extinguisher Location	28	Tire Inflation Information	94
Tire Information	28	Lubricant Viscosities and Refill Capacities	95
Electrical Storm Injury Prevention	29	Maintenance Support	101
Before Starting Engine	29	Maintenance Interval Schedule	102
Engine Starting	29	Reference Information Section	
Before Operation	30	Reference Materials	175
Operation	30	Index Section	
Engine Stopping	32	Index	177
Parking	32		
Sound Information and Vibration Information .	33		
Operator Station	35		
Guards (Operator Protection)	35		
Product Information Section			
General Information	37		
Identification Information	38		
Operation Section			
Before Operation	41		